



revised 3/19/2009 8:58 AM

**FACILITY COMPLIANCE AUDIT REPORT**  
**Division of Waste Management**  
**Solid Waste Section**

**UNIT TYPE:**

Lined MSWLF		LCID		YW		Transfer		Compost		SLAS		COUNTY: Forsyth
Closed MSWLF	X	HHW		White goods		Incineration		T&P		FIRM		PERMIT NO.: 34-06
CDLF		Tire T&P / Collection		Tire Monofill		Industrial Landfill		DEMO		SDTF		FILE TYPE: COMPLIANCE

**Date of Audit:** March 12, 2009

**Date of Last Audit:** February 24, 2004

**FACILITY NAME AND ADDRESS:**

(Closed) Piedmont Landfill & Recycling Center  
9900 Freeman Road  
Kernersville, NC 27284

**GPS COORDINATES:** N: 36.19361 E: -80.04047

**FACILITY CONTACT NAME AND PHONE NUMBER:**

Alexander Lacsamana, District Manager  
Waste Management – Closed Site Management Group

w: 770-805-3366

c: 404-354-2693

**FACILITY CONTACT ADDRESS:**

1000 Parkwood Circle  
Suite 700  
Atlanta, GA 30339

**AUDIT PARTICIPANTS:**

John Patrone, NCDENR – Solid Waste Section (SWS)  
Chris Marriott, NCDENR – SWS  
Alexander (Al) Lacsamana – Waste Management (WM)  
Steve Cowie – Joyce Engineering, Inc.

**STATUS OF PERMIT:**

Closed.

**PURPOSE OF AUDIT:**

Post Closure Audit.

**NOTICE OF VIOLATION(S):**

None.

You are hereby advised that, pursuant to N.C.G.S. 130A-22, an administrative penalty of up to \$15,000 per day may be assessed for each violation of the Solid Waste Statute or Regulations. For the violation(s) noted here, you may be subject to enforcement actions including penalties, injunction from operation of a solid waste management facility or a solid waste collection service and any such further relief as may be necessary to achieve compliance with the North Carolina Solid Waste Management Act and Rules.

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#### **STATUS OF PAST NOTED VIOLATIONS:**

None.

#### **AREAS OF CONCERN AND COMMENTS:**

On March 12, 2009, John Patrone and Chris Marriott met with Alexander Lacsamana and Steve Cowie to conduct a post closure audit of the Closed Piedmont Landfill & Recycling Center in Kernersville, Forsyth County.

1. The facility site plan was verified and its post closure plan discussed. Mr. Lacsamana was asked to locate a copy of the facility's post closure plan.
2. The facility is 186 acres with a 65 acre waste footprint.
3. The facility opened in June 1990 and transitioned from closure to post-closure in December 2004.
4. In January 2005 the landfill experienced slope failure on the north side near the flares. An estimated 1000' x 75' of Geosynthetic Clay Liner (GCL) was exposed. In June 2005 the SWS visited the site and verified that the clay blanket was intact and no trash was exposed. Also in June 2005 the SWS issued WM approval for its reconstruction proposal. Mr. Lacsamana stated that the slope failure is believed to be related to methane gas buildup from the flare(s) not operating.
5. Methane is extracted from 55 (gas extraction) wells and flared-off at one of two flares. Flare operation is routinely switched between each flare and both are backed-up by a diesel generator. If a flare goes-out due to power outage the diesel generator will supply power and ensure re-ignition. WM and Joyce Engineering are notified via phone, page, and/or text. Staff is notified when a flare goes-out and when it re-ignites.
6. The landfill cap is covered with native vegetation and appeared to be in good order.
7. The cap is mowed in the spring and fall. However, the grass atop the berms along the entire landfill/cap was in need of mowing. Ensure that the berms are regularly mowed.
8. Semi-annual ground water monitoring and leachate records were verified. Tests were conducted on September 10&11, 2008, March 19&20, 2008, September 12&13, 2007, January 22&24, 2007, and July 10&12, 2006.
9. Quarterly methane monitoring records were verified. Monitoring was conducted on: 1/16/05, 4/4/05, 7/28/05, 10/24/05, 1/16/06, 4/14/06, 7/13/06, 10/9/06, 1/25/07, 4/13/07, 7/20/07, 10/9/07, 1/21/08, 4/15/08, 7/7/08, 11/10/08, and 1/21/09.
10. Financial Assurance submittals were verified for 2005 = \$3,179,363, 2006 = \$3,168,780, 2007 = no record, 2008 = \$3,117,767, and 2009 = \$3,065,343.
11. Water monitoring wells were observed. The wells were locked, labeled, and contained a cement pad. The wells are accessible.
12. Leachate is collected in five aboveground storage tanks (totaling ~ 30,000 gallons) located across the street (Freeman Road), down-grade from the landfill. Leachate is hauled-off site every 3 – 5 days totaling ~ 20,000 gallons. The leachate is hauled-off by Hilco Transport, Inc. to the HOH Corporation for processing then sent to the local wastewater treatment plant (WWTP). Leachate hauled-off site in 2005 = 1,259,754 gallons, 2006 = 1,147,915 gallons, 2007 = 1,079,496 gallons, and 2008 = 1,038,170 gallons.
13. There was a small area of storm water pooled atop the cap/behind the berm adjacent to Freeman Road. Ensure that the grade is sloped such that storm water flows to the nearby storm water drain.
14. Remove the trash accumulated beside the leachate storage tanks. WM is responsible to ensure that illegally dumped trash, at the facility and along its boundary, is removed and disposed of properly.
15. Repair the indentation caused by a car tire on the cap atop the apex of the landfill.
16. Repair the storm water drain pipe along Freeman Road. The drain pipe is currently split in-two and storm water is eroding the berm (along the property boundary).
17. It is suggested that the two leachate storage tank pumps be covered in order to limit weathering.
18. The facility had proper signage.
19. The landfill is unmanned. Staff from Joyce Engineering, Inc. is on-site ~ twice a month to ensure all systems are functioning and that the site is in good order.

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20. Facility records will be removed from the site and maintained in Atlanta,, GA with Mr. Lacsamana. Joyce Engineering, Inc., based in Greensboro, NC, will also have copies of the records. Mr. Lacsamana should be contacted when SWS staff want to inspect the facility.

Pease contact me if you have any questions or concerns regarding this audit report.

  
John Patrone  
Environmental Senior Specialist

Phone: 336-771-5095 Fax: 336-771-4631

  
Chris Marriott  
Environmental Senior Specialist

***Regional Representative***

Delivered on : <u>March 20, 2009</u> by		Hand delivery	<input checked="" type="checkbox"/>	US Mail		Certified No. [ ]
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cc: Mark Poindexter, Field Operations Branch Supervisor  
Jason Watkins, Central Regional Supervisor  
Donald Herndon, Compliance Officer